



Federal Emergency Management Agency

Washington, D.C. 20472

LETTER OF MAP REVISION DETERMINATION DOCUMENT

COMMUNITY AND REVISION INFORMATION		PROJECT DESCRIPTION	BASIS OF REQUEST
COMMUNITY	City of Columbia Richland County South Carolina	NO PROJECT	FLOODWAY HYDRAULIC ANALYSIS HYDROLOGIC ANALYSIS NEW TOPOGRAPHIC DATA
	COMMUNITY NO.: 450172		
IDENTIFIER	Smith Branch - Upper Branch	APPROXIMATE LATITUDE & LONGITUDE: 34.022, -81.029 SOURCE: USGS QUADRANGLE DATUM: NAD 83	
ANNOTATED MAPPING ENCLOSURES		ANNOTATED STUDY ENCLOSURES	
TYPE: FIRM* NO.: 45079C0092H DATE: February 20, 2002		DATE OF EFFECTIVE FLOOD INSURANCE STUDY REPORT: September 29, 2010 PROFILE(S)**: 128P, 129P, 130P and 131P FLOODWAY DATA TABLE: 8 SUMMARY OF DISCHARGES TABLE: 6	

Enclosures reflect changes to flooding sources affected by this revision.

* FIRM - Flood Insurance Rate Map; **The Profiles, 128-130P are revised only to convert the datum to NGVD. The LOMR revision reflects on profile 131P.

FLOODING SOURCE(S) & REVISED REACH(ES)

See Page 2 for Additional Flooding Sources

Smith Branch - from just downstream of Colonial Drive to approximately 280 feet upstream of Abandoned Railroad

SUMMARY OF REVISIONS

Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases
Smith Branch	Zone AE	Zone AE	NONE	YES
	BFEs*	BFEs	YES	YES
	Floodway	Floodway	NONE	YES
	Zone AH	Zone AH	YES	YES

* BFEs - Base Flood Elevations

DETERMINATION

This document provides the determination from the Department of Homeland Security's Federal Emergency Management Agency (FEMA) regarding a request for a Letter of Map Revision (LOMR) for the area described above. Using the information submitted, we have determined that a revision to the flood hazards depicted in the Flood Insurance Study (FIS) report and/or National Flood Insurance Program (NFIP) map is warranted. This document revises the effective NFIP map, as indicated in the attached documentation. Please use the enclosed annotated map panels revised by this LOMR for floodplain management purposes and for all flood insurance policies and renewals in your community.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange (FMIX) toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 847 South Pickett Street, Alexandria, VA 22304-4605. Additional Information about the NFIP is available on our website at <http://www.fema.gov/business/nfip>.

Beth A. Norton

Beth A. Norton, Program Specialist
Engineering Management Branch
Federal Insurance and Mitigation Administration

125360 PT202.02.BKR.11040263P.H17 102-I-A-C



Federal Emergency Management Agency
Washington, D.C. 20472

**LETTER OF MAP REVISION
DETERMINATION DOCUMENT (CONTINUED)**

OTHER FLOODING SOURCES AFFECTED BY THIS REVISION

FLOODING SOURCE(S) & REVISED REACH(ES)

Smith Branch - from just downstream of Colonial Drive to approximately 280 feet upstream of Abandoned Rail Road

SUMMARY OF REVISIONS

Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases
Smith Branch	Zone AE	Zone X (shaded)	NONE	YES
	Zone AH	Zone X (shaded)	NONE	YES

* BFEs - Base Flood Elevations

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange (FMIX) toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 847 South Pickett Street, Alexandria, VA 22304-4605. Additional Information about the NFIP is available on our website at <http://www.fema.gov/business/nfip>.

Beth A. Norton

Beth A. Norton, Program Specialist
Engineering Management Branch
Federal Insurance and Mitigation Administration

125360 PT202.02.BKR.11040263P.H17 102-I-A-C



Federal Emergency Management Agency

Washington, D.C. 20472

LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

COMMUNITY INFORMATION

APPLICABLE NFIP REGULATIONS/COMMUNITY OBLIGATION

We have made this determination pursuant to Section 206 of the Flood Disaster Protection Act of 1973 (P.L. 93-234) and in accordance with the National Flood Insurance Act of 1968, as amended (Title XIII of the Housing and Urban Development Act of 1968, P.L. 90-448), 42 U.S.C. 4001-4128, and 44 CFR Part 65. Pursuant to Section 1361 of the National Flood Insurance Act of 1968, as amended, communities participating in the NFIP are required to adopt and enforce floodplain management regulations that meet or exceed NFIP criteria. These criteria, including adoption of the FIS report and FIRM, and the modifications made by this LOMR, are the minimum requirements for continued NFIP participation and do not supersede more stringent State/Commonwealth or local requirements to which the regulations apply.

We provide the floodway designation to your community as a tool to regulate floodplain development. Therefore, the floodway revision we have described in this letter, while acceptable to us, must also be acceptable to your community and adopted by appropriate community action, as specified in Paragraph 60.3(d) of the NFIP regulations.

COMMUNITY REMINDERS

We based this determination on the 1-percent-annual-chance discharges computed in the submitted hydrologic model. Future development of projects upstream could cause increased discharges, which could cause increased flood hazards. A comprehensive restudy of your community's flood hazards would consider the cumulative effects of development on discharges and could, therefore, indicate that greater flood hazards exist in this area.

Your community must regulate all proposed floodplain development and ensure that permits required by Federal and/or State/Commonwealth law have been obtained. State/Commonwealth or community officials, based on knowledge of local conditions and in the interest of safety, may set higher standards for construction or may limit development in floodplain areas. If your State/Commonwealth or community has adopted more restrictive or comprehensive floodplain management criteria, those criteria take precedence over the minimum NFIP requirements.

We will not print and distribute this LOMR to primary users, such as local insurance agents or mortgage lenders; instead, the community will serve as a repository for the new data. We encourage you to disseminate the information in this LOMR by preparing a news release for publication in your community's newspaper that describes the revision and explains how your community will provide the data and help interpret the NFIP maps. In that way, interested persons, such as property owners, insurance agents, and mortgage lenders, can benefit from the information.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange (FMIX) toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 847 South Pickett Street, Alexandria, VA 22304-4605. Additional Information about the NFIP is available on our website at <http://www.fema.gov/business/nfip>.

Beth A. Norton

Beth A. Norton, Program Specialist
Engineering Management Branch
Federal Insurance and Mitigation Administration

125360 PT202.02.BKR.11040263P.H17 102-I-A-C



Federal Emergency Management Agency

Washington, D.C. 20472

LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

We have designated a Consultation Coordination Officer (CCO) to assist your community. The CCO will be the primary liaison between your community and FEMA. For information regarding your CCO, please contact:

Mr. Brad Loar
Director, Mitigation Division
Federal Emergency Management Agency, Region IV
Koger Center - Rutgers Building
3003 Chamblee Tucker Road
Atlanta, GA 30341
(770) 220-5400

STATUS OF THE COMMUNITY NFIP MAPS

We will not physically revise and republish the FIRM and FIS report for your community to reflect the modifications made by this LOMR at this time. When changes to the previously cited FIRM panel(s) and FIS report warrant physical revision and republication in the future, we will incorporate the modifications made by this LOMR at that time.

The FIRM panel 45079C0092H, dated February 2002 is referenced to NGVD 29. However, the 2010 FIS Report includes the flood profiles and Floodway Data Table for Smith Branch, both referenced to NAVD 88. This LOMR revises profiles 128-130P only to convert the vertical datum to NGVD. The LOMR revision affects only profile 131P. All elevation data in the Floodway Data Table for Smith Branch are also converted to NGVD.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange (FMIX) toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 847 South Pickett Street, Alexandria, VA 22304-4605. Additional Information about the NFIP is available on our website at <http://www.fema.gov/business/nfip>.

Beth A. Norton

Beth A. Norton, Program Specialist
Engineering Management Branch
Federal Insurance and Mitigation Administration

125360 PT202.02.BKR.11040263P.H17 102-I-A-C



Federal Emergency Management Agency

Washington, D.C. 20472

LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

PUBLIC NOTIFICATION OF REVISION

PUBLIC NOTIFICATION

A notice of changes will be published in the *Federal Register*. This information also will be published in your local newspaper on or about the dates listed below and through FEMA's Flood Hazard Mapping website at https://www.floodmaps.fema.gov/fhm/Scripts/bfe_main.asp.

LOCAL NEWSPAPER Name: *The Columbia Star*
Dates: May 25, 2012 and June 1, 2012

Within 90 days of the second publication in the local newspaper, a citizen may request that we reconsider this determination. Any request for reconsideration must be based on scientific or technical data. Therefore, this letter will be effective only after the 90-day appeal period has elapsed and we have resolved any appeals that we receive during this appeal period. Until this LOMR is effective, the revised flood hazard determination information presented in this LOMR may be changed.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange (FMIX) toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 847 South Pickett Street, Alexandria, VA 22304-4605. Additional Information about the NFIP is available on our website at <http://www.fema.gov/business/nfip>.

Beth A. Norton

Beth A. Norton, Program Specialist
Engineering Management Branch
Federal Insurance and Mitigation Administration

125360 PT202.02.BKR.11040263P.H17 102-I-A-C

TABLE 6 - SUMMARY OF DISCHARGES - (continued)

<u>FLOODING SOURCE</u>	<u>DRAINAGE AREA</u>	<u>PEAK DISCHARGES (cfs)</u>			
<u>AND LOCATION</u>	<u>(sq.miles)</u>	<u>10-YEAR</u>	<u>50-YEAR</u>	<u>100-YEAR</u>	<u>500-YEAR</u>
REEDER POINT					
BRANCH (continued)					
Below confluence of					
Tributary RP-1	6.74	2,445	3,683	4,218	5,663
Above confluence of					
Tributary RP-1	4.66	1,904	2,962	3,488	4,571
At Southern Railway	3.89	1,886	2,837	3,302	4,224
Below dam	1.77	1,003	1,554	1,809	2,313
Above Burnside's Pond	0.96	518	763	882	1,124
ROBERTS BRANCH					
At mouth	6.24	710	1,540	2,182	3,119
Below Stevensons Lake	5.73	705	1,698	2,278	3,137
Above Steven sons Lake	5.73	796	1,806	2,314	3,175
Below Crescent Lake	5.23	749	1,704	2,182	2,989
Above Crescent Lake	4.35	743	1,545	1,956	2,634
Below Epsworth Lake	3.55	626	1,303	1,659	2,233
Above Epsworth Lake	3.55	982	1,587	1,891	2,416
At Southern Railway	2.51	698	1,115	1,328	1,695
ROCKY BRANCH					
At mouth	3.7	2,210	3,190	3,550	4,780
At Southern Railway	2.9	2,110	3,020	3,360	4,430
SALUDA RIVER					
At mouth	2,510.0	32,000	90,000	105,000	145,000
SANDY BRANCH					
Below Bridge Creek 1	8.70	1,913	3,294	3,904	5,120
At Richland County					
Boundary	4.00	1,319	2,299	2,707	3,512
SMITH BRANCH					
At mouth	7.36	2,681	3,867	4,435	5,672
At confluence of					
Bay Branch	5.35	2,286	3,297	3,781	4,836
Above confluence					
of Bay Branch	2.36	1,727	2,590	2,994	3,973
At Colonial Drive	1.91	1,399	2,129	2,494	3,407
At Preston Drive	0.74	576	652	754	897
SORGHUM BRANCH					
At mouth	1.36	466	658	749	903
SPEARS CREEK					
At County Line Dam	10.83	817	1,521	1,795	2,320

REVISED
DATA

¹Outside Richland County

REVISED TO
REFLECT LOMR
EFFECTIVE: October 1, 2012

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NGVD)				
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE	
SMITH BRANCH (continued)									
	V	14,930	324	3,373	0.7	222.7	222.7	223.6	0.9
	W	15,450	238	1,912	1.3	222.8	222.8	223.7	0.9
	X	15,960	479	2,168	1.2	223.0	223.0	223.8	0.8
	Y	18,060	42	234	3.2	233.4	233.4	233.9	0.5
Z	18,270	40	187	4.0	234.3	234.3	234.6	0.3	
AA	18,640	30	157	4.8	236.7	236.7	236.9	0.2	
AB	18,940	40	373	2.0	238.4	238.4	238.4	0.0	
						REVISED DATA			
							REVISED TO REFLECT LOMR		

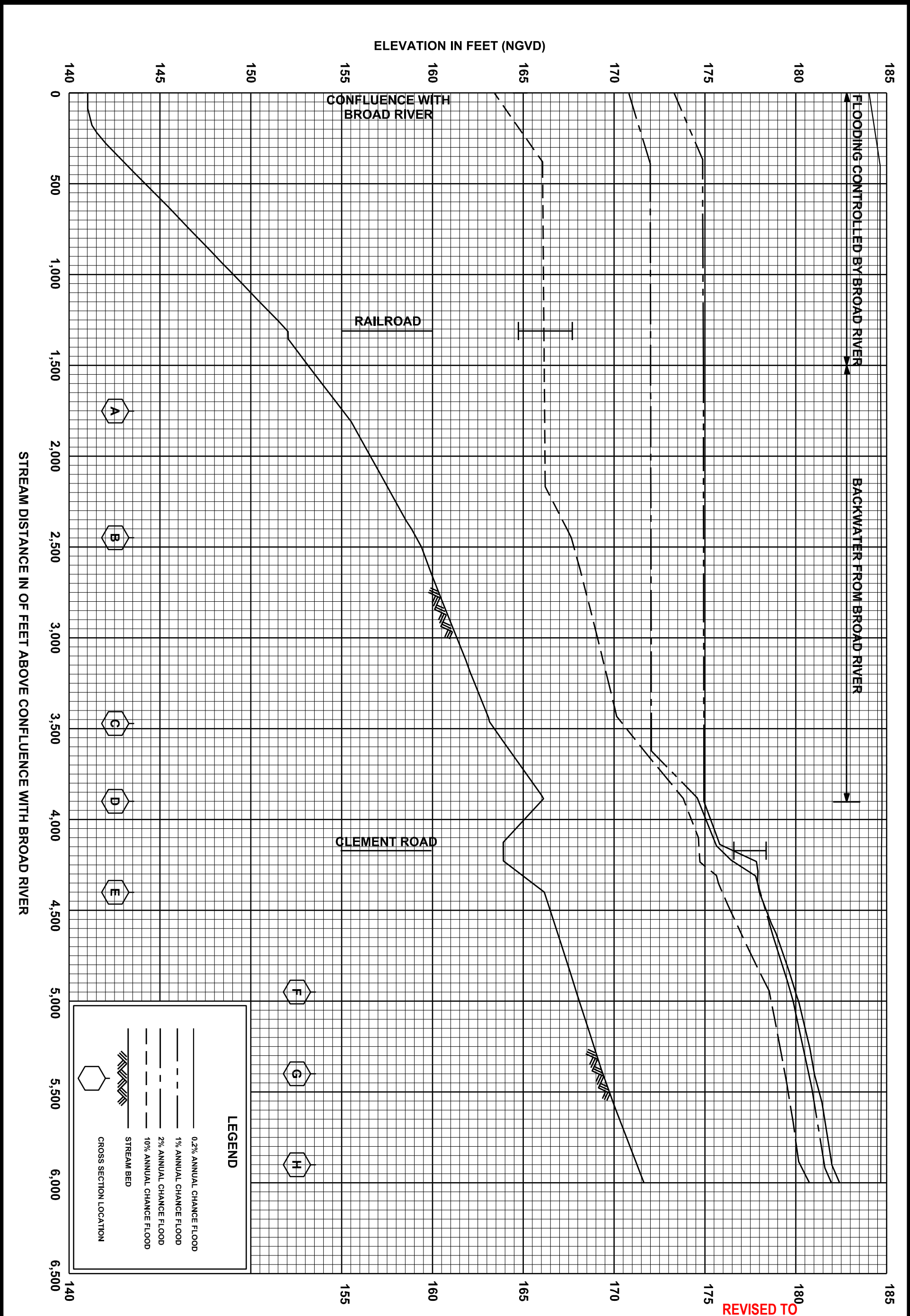
¹ Feet above confluence with Broad River

TABLE 8

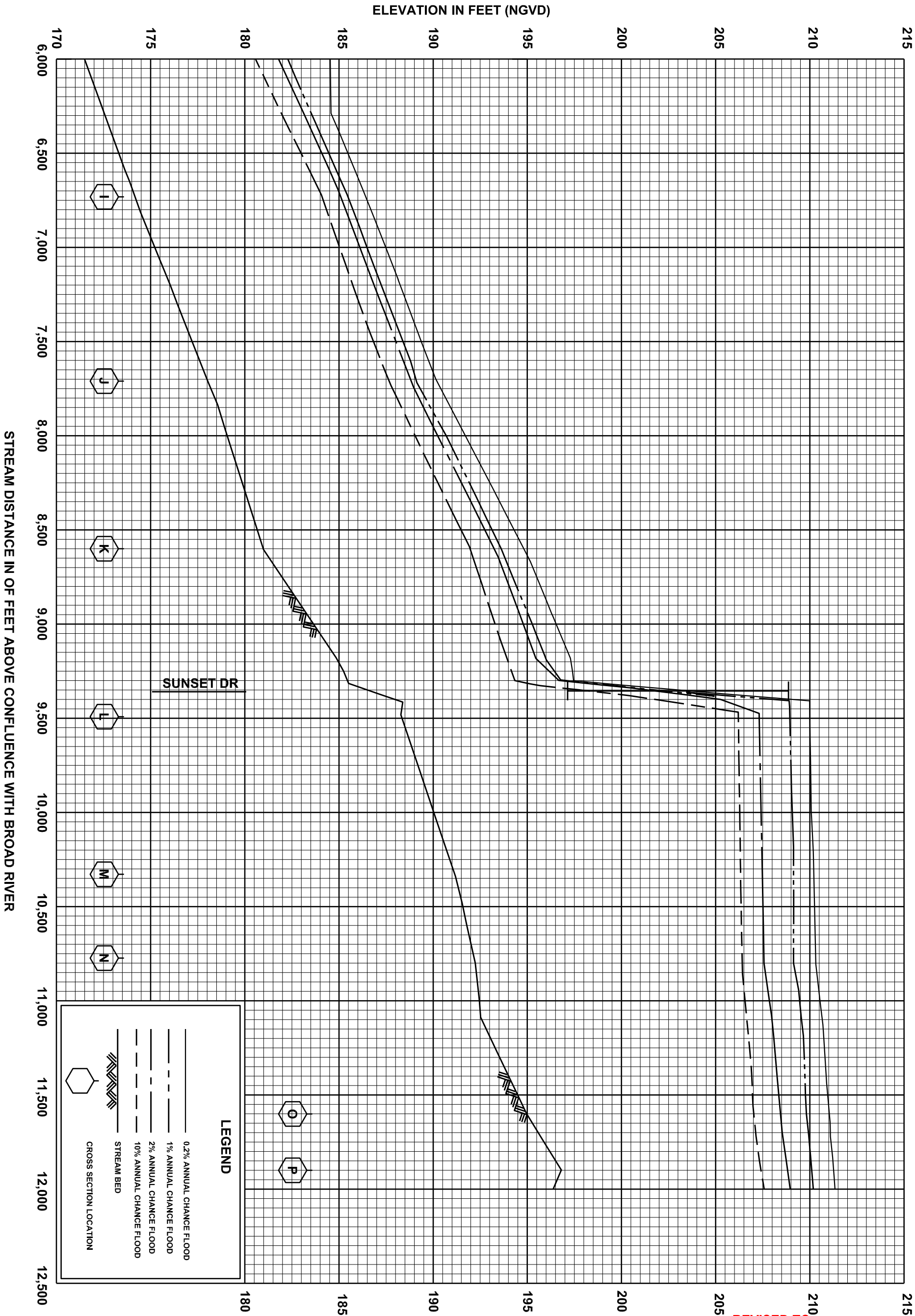
FEDERAL EMERGENCY MANAGEMENT AGENCY
RICHLAND COUNTY, SC
 AND INCORPORATED AREAS

FLOODWAY DATA

SMITH BRANCH



REVISED TO
REFLECT LOMR
EFFECTIVE:October 1, 2012



REVISED TO
REFLECT LOMR
EFFECTIVE:October 1, 2012

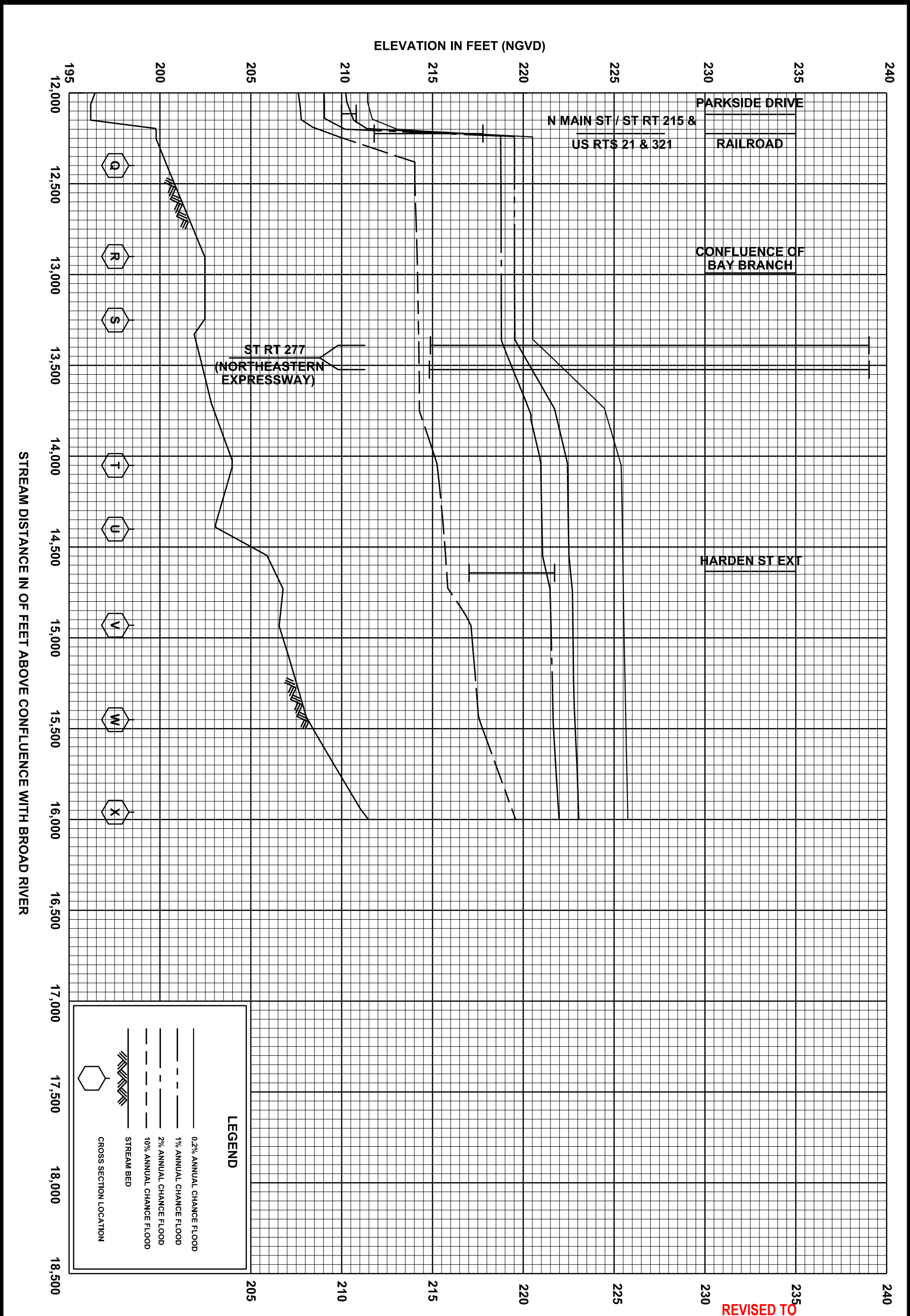
FLOOD PROFILES

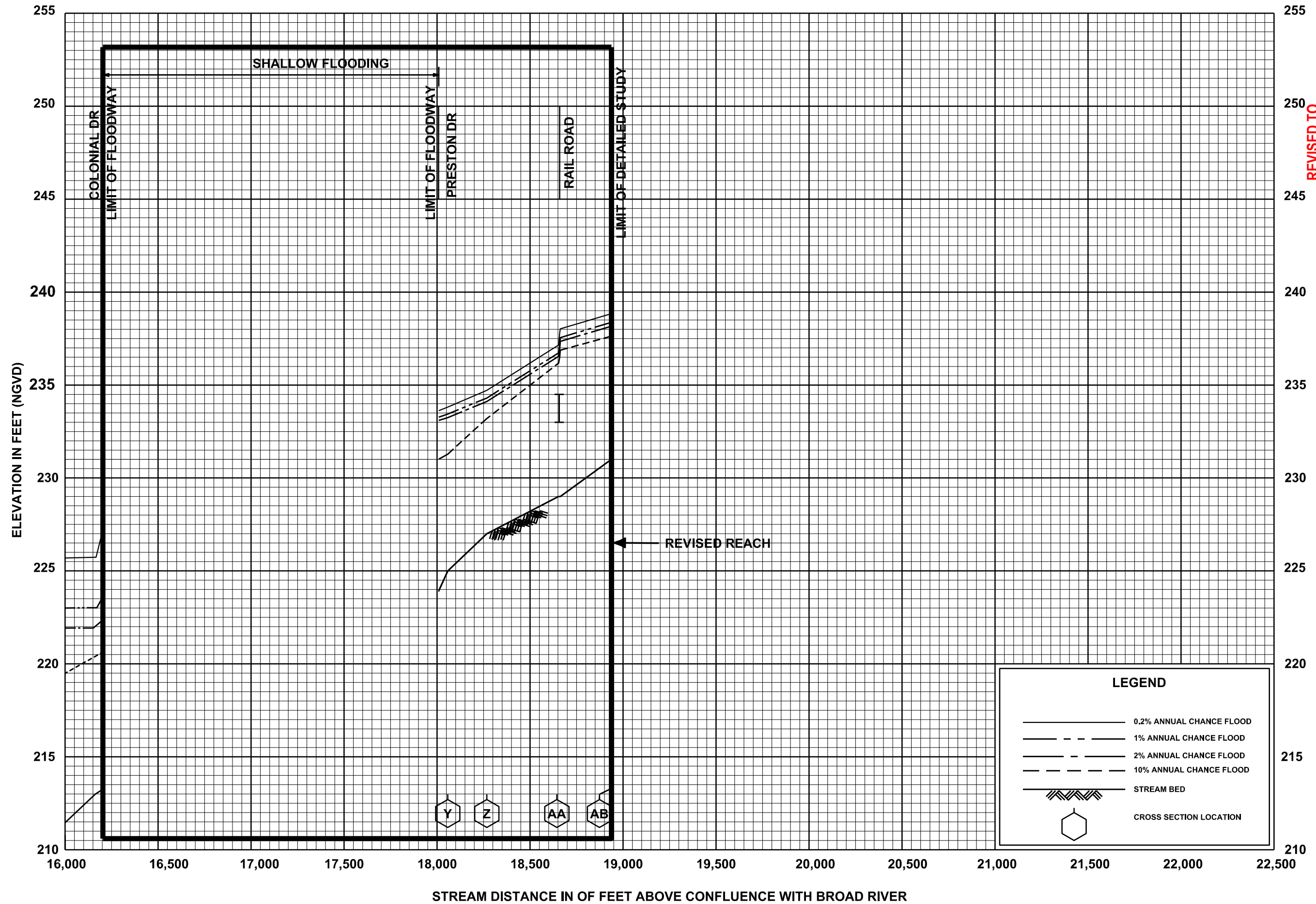
SMITH BRANCH

FEDERAL EMERGENCY MANAGEMENT AGENCY

RICHLAND COUNTY, SC

AND INCORPORATED AREAS

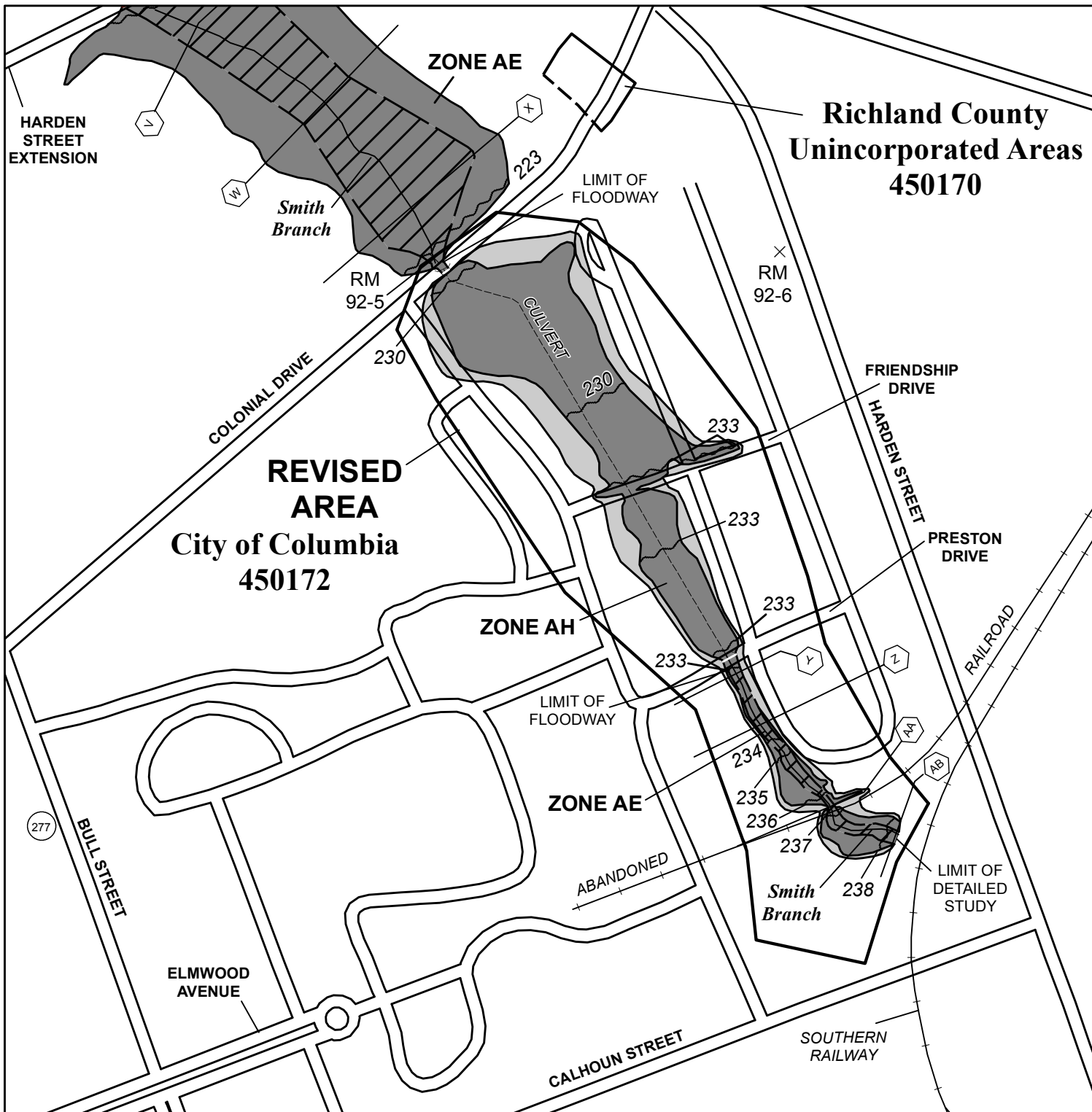







REVISED TO
REFLECT LOMR
FLOOD PROFILES
EFFECTIVE: October 1, 2012

SMITH BRANCH

FEDERAL EMERGENCY MANAGEMENT AGENCY
RICHLAND COUNTY, SC
AND INCORPORATED AREAS



Legend

-  1% annual chance (100-Year) Floodplain
-  1% annual chance (100-Year) Floodway
-  0.2% annual chance (500-Year) Floodplain



APPROXIMATE SCALE IN FEET

500 0 500 Feet

NATIONAL FLOOD INSURANCE PROGRAM

FIRM FLOOD INSURANCE RATE MAP

**RICHLAND COUNTY,
SOUTH CAROLINA
AND INCORPORATED AREAS**

PANEL 92 OF 275
(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
COLUMBIA, CITY OF	450172	0092	H
UNINCORPORATED AREAS	450170	0092	H

**REVISED TO
REFLECT LOMR
EFFECTIVE: October 1, 2012**

Notice to User: The MAP NUMBER shown below should be used when placing map orders; the COMMUNITY NUMBER shown above should be used on insurance applications for the subject community.

**MAP NUMBER
45079C0092 H**

**MAP REVISED:
FEBRUARY 20, 2002**



Federal Emergency Management Agency